Proceedings of the Madras Government, Public Works Department, 6th March 1872.

No. 102. Read the following letter from the Executive Engineer on special duty, Madura District, to the Acting Chief Engineer for Irrigation, dated Madura, 13th February 1872, No. 374 :—

I HAVE the honour to submit the subjoined report of the progress made with the Perryaur investigations in January 1872.

2. The contour survey of the country to ascertain the capacity of the proposed reservoir at different levels has been completed.

3. The necessary trial pits at the escape saddle have been sunk, and those required to determine the alignment of the escape tunnel and the areas of the earth quarries are well advanced and will be finished in a few days.

4. The diagram and register, showing the rainfall at the Perryaur camps and the discharge of the Perryaur during the past month, are enclosed.

PERRYAUR PROJECT.

Table of rainfall and discharge of Perryaur during January 1872.

Date.	Rainfall at		Hours.	Water level.	Discharge.	
	Perryaur Camp.	Kythury Camp.			Cubic feet per second.	1,000 Cubic yards per day.
	Inches.	Inches.		Feet.		
1st January	0·00	0·00	6 A. M.	0·30	396	1,267
2nd ,, ...	0·00	0·00	6 A. M.	0·20	372	1,190
3rd ,, ...	0·00	0·00	6 A. M.	0·12	354	1,133
4th ,, ...	0·00	0·00	6 A. M.	0·08	345	1,104
5th ,, ...	0·00	0·00	6 A. M.	0·05	339	1,085
6th ,, ...	0·00	0·00	6 A. M.	—0·04	320	1,024
7th ,, ...	0·00	0·00	6 A. M.	—0·08	312	998
8th ,, ...	0·00	0·00	6 A. M.	—0·12	304	973
9th ,, ...	0·00	0·00	6 A. M.	—0·16	296	947
10th ,, ...	0·00	0·00	6 A. M.	—0·16	296	947
11th ,, ...	0·00	0·00	6 A. M.	—0·20	289	925
12th ,, ...	0·00	0·00	6 A. M.	—0·23	283	905
13th ,, ...	0·00	0·00	6 A. M.	—0·25	279	893
14th ,, ...	0·00	0·00	6 A. M.	—0·25	279	893
15th ,, ...	0·00	0·00	6 A. M.	—0·30	269	861
16th ,, ...	0·00	0·00	6 A. M.	—0·33	269	861
17th ,, ...	0·00	0·00	6 A. M.	—0·35	263	842
18th ,, ...	0·00	0·00	6 A. M.	—0·38	259	829
19th ,, ...	0·00	0·00	6 A. M.	—0·38	253	809
20th ,, ...	0·00	0·00	6 A. M.	—0·41	253	809
21st ,, ...	0·00	0·00	6 A. M.	—0·42	247	790
22nd ,, ...	0·00	0·00	6 A. M.	—0·42	245	784
23rd ,, ...	0·00	0·00	6 A. M.	—0·42	245	784
24th ,, ...	0·00	0·00	6 A. M.	—0·47	245	784
25th ,, ...	0·00	0·00	6 A. M.	—0·48	235	752
26th ,, ...	0·00	0·00	6 A. M.	—0·49	233	746
27th ,, ...	0·00	0·00	6 A. M.	—0·49	231	739
28th ,, ...	0·00	0·00	6 A. M.	—0·50	231	739
29th ,, ...	0·00	0·00	6 A. M.	—0·52	229	734
30th ,, ...	0·00	0·00	6 A. M.	—0·47	225	720
31st ,, ...	0·00	0·00	6 A. M.		235	752
Total...	0·00	0·00				27,619

Depth run off from Catchment Basin of 250 square miles = 1·28 inches.

Mean Discharge ...	890,935	Cubic yards per diem.
	37,122	,, ,, ,, hour.
	278	,, feet per second.

	Cubic yards.
Discharge of Perryaur during January 1870 ...	56,184,000
Do. of do. during do. 1872 ...	27,619,000
Difference—Excess in 1870 ...	28,565,000

MADURA,
13th January 1872.

(Signed) R. SMITH,
Executive Engineer,
on special duty, Madura District.

No. 103. ORDER THEREON, 6th March 1872, No. 608.

IRRIGATION, No. 6.

ORDERED to be recorded.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

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MEMORANDUM.

REQUESTED for reference the undermentioned papers

Reports of [illegible] discharge in [illegible] [illegible] [illegible] [illegible]

OFFICE OF THE CHIEF ENGR. FOR IRRIGATION, P. W. Department,
14 - 3 - 1872.

[illegible]
Head Clerk.

To
The Registrar of the P. W. Secretariat.

Perryaur Project

Table of rainfall and discharge of Perryaur during January 1872.

Date	Rainfall at Perryaur Camp (Inches)	Rainfall at Kothury Camp (Inches)	Hours	Water level (feet)	Discharge: Cubic feet per second	Discharge: 1000 Cubic yards per day	Date	Rainfall at Perryaur Camp (Inches)	Rainfall at Kothury Camp (Inches)	Hours	Water level (feet)	Discharge: Cubic feet per second	Discharge: 1000 Cubic yards per day
1	0.00	0.00	6 am	0.30	396	1,267	17	0.00	0.00	6 am	_0.33	263	842
2	0.00	0.00	6 am	0.20	372	1,190	18	0.00	0.00	6 am	_0.35	259	829
3	0.00	0.00	6 am	0.12	354	1,133	19	0.00	0.00	6 am	_0.38	253	809
4	0.00	0.00	6 am	0.08	345	1,104	20	0.00	0.00	6 am	_0.38	253	809
5	0.00	0.00	6 am	0.05	339	1,085	21	0.00	0.00	6 am	_0.41	247	790
6	0.00	0.00	6 am	_0.04	320	1,024	22	0.00	0.00	6 am	_0.42	~~245~~	784
7	0.00	0.00	6 am	_0.08	312	998	23	0.00	0.00	6 am	_0.42	245	784
8	0.00	0.00	6 am	_0.12	304	973	24	0.00	0.00	6 am	_0.42	245	784
9	0.00	0.00	6 am	_0.16	296	947	25	0.00	0.00	6 am	_0.47	235	752
10	0.00	0.00	6 am	_0.16	296	947	26	0.00	0.00	6 am	_0.48	233	746
11	0.00	0.00	6 am	_0.20	289	925	27	0.00	0.00	6 am	_0.49	231	739
12	0.00	0.00	6 am	_0.23	283	905	28	0.00	0.00	6 am	_0.49	231	739
13	0.00	0.00	6 am	_0.25	279	893	29	0.00	0.00	6 am	_0.50	229	734
14	0.00	0.00	6 am	_0.25	279	893	30	0.00	0.00	6 am	_0.52	225	720
15	0.00	0.00	6 am	_0.30	269	861	31	0.00	0.00	6 am	_0.47	235	752
16	0.00	0.00	6 am	_0.30	269	861	Total	0.00	0.00			Total	27,619

Depth run off from catchment basin of 250 Square miles = 1.28 Inches

Mean Discharge — 890,935 Cubic yards per diem
37,122 " " hour
278 " feet per second.

	Cubic yards
Discharge of Perryaur during January 1870	56,184,000
Do. of Do. during Do. 1872	27,619,000
Difference _ Excess in 1870	28,565,000

Ex. Ex. Engr's Office
Madura 13 January 1872

Copied & Compared, [illegible]
" G.R.

J. Smith
Executive Engineer [illegible] Madura Dist.

Enclosure No. 1 in a letter
from the Executive Engineer
On Special duty Madura Distt.
dated 13th February 1872.

1/12/72. No. 374

To,
The Actg. Chief Engr.
for Irrigation
Fort Saint George

P. W. 859/72

Periyaur Project

Table of rainfall and
discharge of Periyaur
during January 1872.

No. 374 Special Executive Engineer's Office
Madura 13th February 1872

From,

The Executive Engineer
On Special duty
Madura District

To,

The Acting Chief Engineer
for Irrigation
Fort Saint George

Sir,

I have the honor to submit the subjoined report of the progress made, with the Perryaur investigations, in January 1872.

2. The Contour survey of the country, to ascertain the capacity of the proposed Reservoir, at different levels, has been completed.

3. The necessary trial pits, at the escape saddle, have been sunk; and those

required

required to determine the alignment of the Escape Tunnel, and the areas of the Earth quarries, are well advanced and will be finished in a few days.—

4. The Diagram and Register showing the rain-fall, at the Perryaur Camps, and the discharge of the Perryaur, during the past month, are enclosed.—

I have the honor to be

Sir,

Your Most Obedient Servant

J Smith

Executive Engineer
On special duty
Madura Distt.

P. W. 1872 Depart.

No. 374

From No. 12 3859

The Executive Engineer
On special duty
Madura Dist.

(12)

To,
The Actg. Chief Engr.
for Irrigation
Fort Saint George

Dated 13th
Desptd. 13th } February 1872
Received 16th
Recd. 19"

I. E. Reed

Enclosures 2.

Submits the report of the progress made with the Perryaur investigations d[uring] January 1872.

No. 608 6 Febry/72
With an order

To Office
Ordered to be recorded

To Ch Engr for Irrigation
Smith, Deptd. 7/3/72